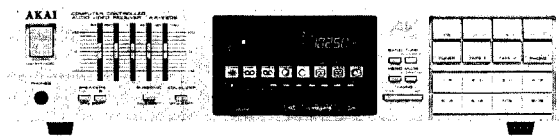
AKAI

COMPUTER CONTROLLED AUDIO VIDEO RECEIVER

AA-V205



Operator's Manual 5

What you should know to protect yourself

Watch out! You might get an electric shock.

- Never touch the plug with wet hands.
- Always pull out by the plug and never the cord.
- Only let a qualified professional repair or reassemble the Akai Audio Video Receiver. An unauthorized person may touch the internal parts and receive a serious electric shock.
- Never allow a child to put anything, especially metal, into the Akai Audio Video Receiver.

Let's protect the Akai Audio Video Receiver, too.

- Use only a household AC power source. Never use a DC power source.
- Make sure that the power consumption of each component does not exceed the wattage specified on the rear panel.
- If water is spilled on the Akai Audio Video Receiver, disconnect it and call your dealer.
- Make sure that the Akai Audio Video Receiver is well ventilated and away from direct sunlight. Be careful not to block the side vents of the Akai Audio Video Receiver.
- To avoid damages to the internal circuits and the external surface, keep away from heat (stoves, etc.)
- Avoid using spray type insecticide near the Akai Audio Video Receiver. It can damage the finish and might ignite suddenly.
- To avoid damaging the finish, never use paint thinner or other similar chemicals to clean the Akai Audio Video Receiver.
- Place the Akai Audio Video Receiver on a flat and solid surface.
- Do not listen through headphones at high levels as it may damage your hearing.
- **If you don't plan to use the Akai Audio Video Receiver for a long period of time, disconnect the power cord.**

To enjoy the Akai Audio Video Receiver for a long time, please read this operator's manual thoroughly.

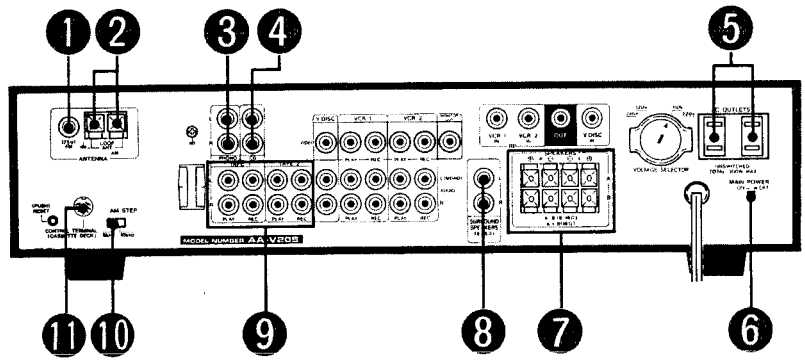
CAUTION

To prevent electric shock, do not use this polarized AC power plug with an extension cord receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Rear Panel Connections

Check First

- Turn off all components before connecting
- If your unit has a voltage converter, refer to page 1 for the proper directions and power requirements.
- Always connect the AC power cord last.
- Leave the MAIN POWER switch at OFF (■) position until all the connections are completed.



1 FM Antenna jack

Connect the standard accessory T-shaped FM antenna to the FM (75Ω) jack on the rear panel of the stereo system, then tack the antenna up on a wall.

- The standard accessory T-shaped FM antenna is a simple type. If you want to receive FM broadcasts more clearly, we recommend a higher grade FM antenna (eg. a multi-element type) for FM reception.

2 AM LOOP ANTENNA

Insert the standard accessory AM loop antenna to the AM LOOP and Ground terminals by pulling down the tabs, as shown in the illustration.

Detach the AM loop antenna and place it where best reception can be obtained.

3 PHONO jacks

Connect the output plugs of the Akai Turntable Left and Right to the audio video receiver's PHONO jacks Left and Right.

Connect the Turntable's ground wire securely to the audio video receiver's ground (⏚) terminal to prevent noise and distortion.

- **Attention: Never connect a CD player to the PHONO jacks under any circumstances.**

4 CD jacks

Connect the Akai CD's output plugs Left and Right to the audio video receiver's CD jacks Left and Right.

5 AC OUTLETS (Not on some models)

6 MAIN POWER ON/OFF swtich

To completely turn on and off the power Akai audio video receiver.

7 SPEAKER Terminals

8 SURROUND SPEAKERS Terminals

Insert the (optional) AE-S90 Surround Speaker input plugs into the Left and Right SURROUND SPEAKER terminals.

Note

Do not connect an amplifier or other speaker system to these terminals.

9 TAPE 1/2 jacks

Connect the TAPE REC jacks to the Akai Cassette deck's LINE IN jacks Left and Right.

Connect the TAPE PLAY jacks to the Akai cassette deck's LINE OUT jacks Left and Right.

10 AM STEP Switch (Only on models with convertible voltage)

Use this switch to set the frequency scanning steps for your area, either 9kHz or 10kHz.

(10kHz for North and South America, 9kHz for other areas)

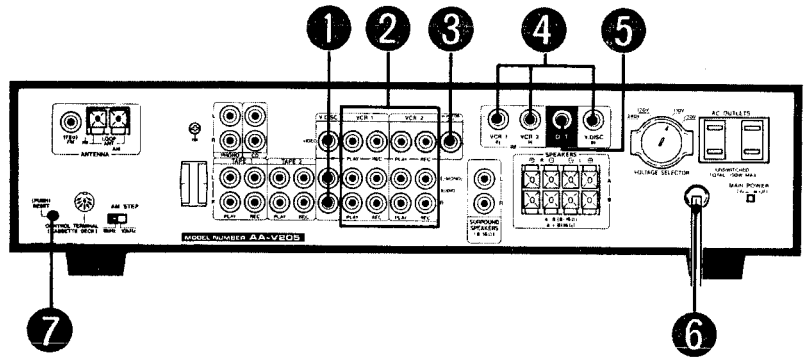
After changing the position of this selector, press the RESET (PUSH) button.

11 CONTROL TERMINAL (CASSETTE DECK)

Connect the Akai cassette deck's REMOTE jack with the optional remote control cable.

Attention

Do not connect a component other than an Akai cassette deck to this terminal



1 V.DISC jack

VIDEO:
Connect the Video Disc's Video Output jack to the audio video receiver's V.DISC jack with a Video PIN-plug cord.

AUDIO R/L:
Connect the Video Disc's Audio Output jacks (R and L) to the audio video receiver's V.DISC (R and L) jacks with an Audio PIN-plug cord.

* If you want to connect a TV tuner or a third VCR for playback, please use these jacks. When connecting a video tuner, follow the above procedure.

2 VCR 1/2 jacks

REC:
VIDEO:
Connect the VCR's Video Input jack to the audio video receiver's VIDEO REC jack with a video PIN-plug cord.
AUDIO R/L:
Connect the VCR's Audio Input jacks to the audio video receiver's R and L jacks with an Audio PIN-plug cord.
PLAY:
VIDEO:
Connect the VCR's Video Output jack to the audio video receiver's VIDEO PLAY jack with a video PIN-plug cord.
AUDIO R/L:
Connect the VCR's Audio Output jacks to the audio video receiver's R and L jacks with an Audio PIN-plug cord.

Note
If your VCR is a conventional monaural model, use only the Left (white) REC and PLAY **AUDIO** jacks of the Akai audio video receiver for connection.

3 MONITOR OUT jack

Connect the Video Input jack of the monitor or home TV to the audio video receiver's MONITOR OUT jack with a Video PIN-plug cord.

4 RF VCR1, VCR2 and V.DISC terminals (Not on all models)

For connecting the VHF OUT antenna terminals of a Video cassette recorder or video disc player with a VHF coaxial antenna cable.

5 RF OUT terminals (not on all models)

Connect your monitor TV's VHF antenna terminal to this terminal with a VHF coaxial antenna cable.

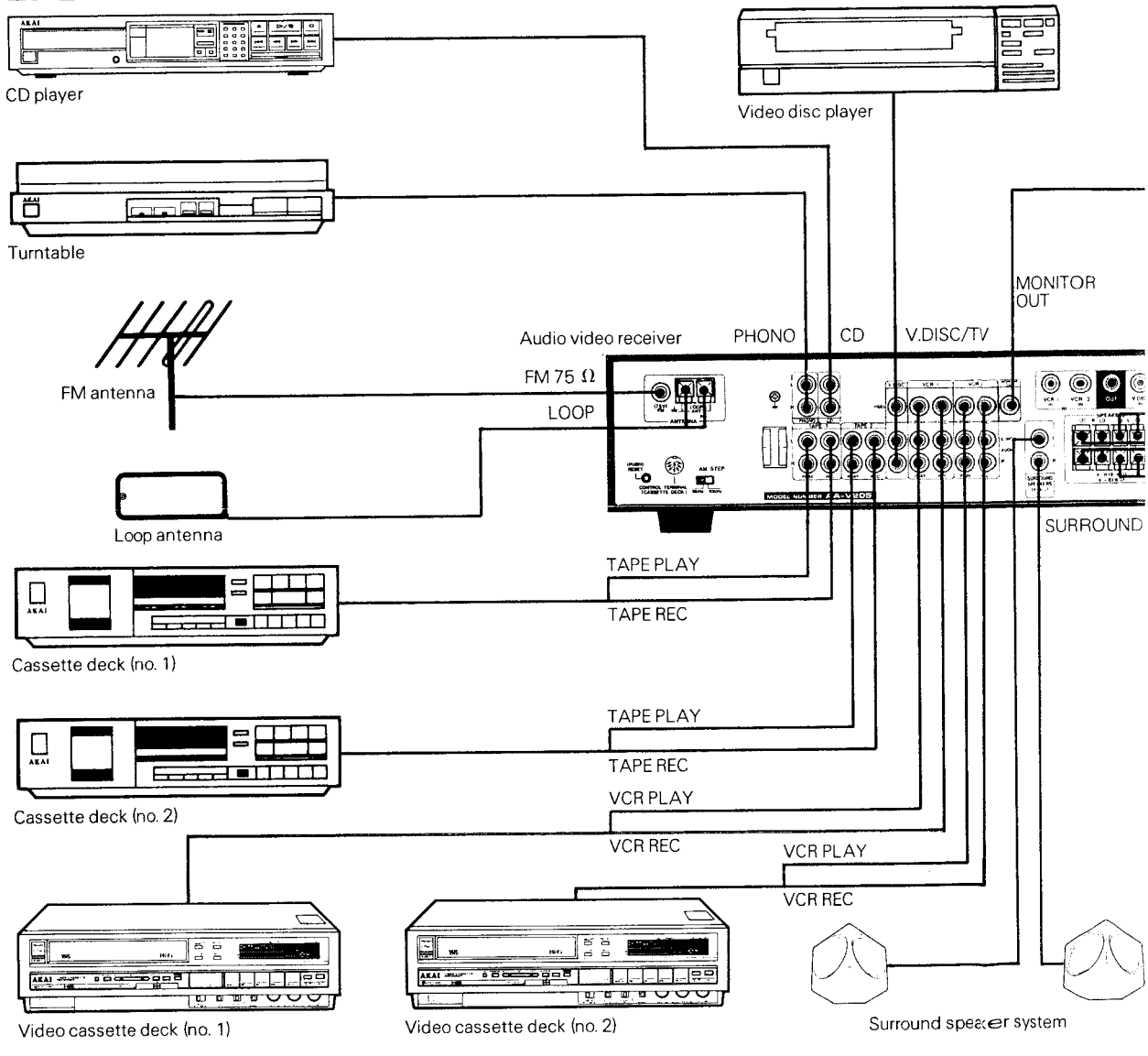
6 After you have connected everything:

Connect the power cord to a household AC outlet or Akai optional timer.

7 RESET(PUSH) button

To reset the audio video receiver to the initial mode.

5 Overall view



AC OUTLETS (Not on some models)

Use these outlets for connection of the components connected to the Akai audio video receiver.

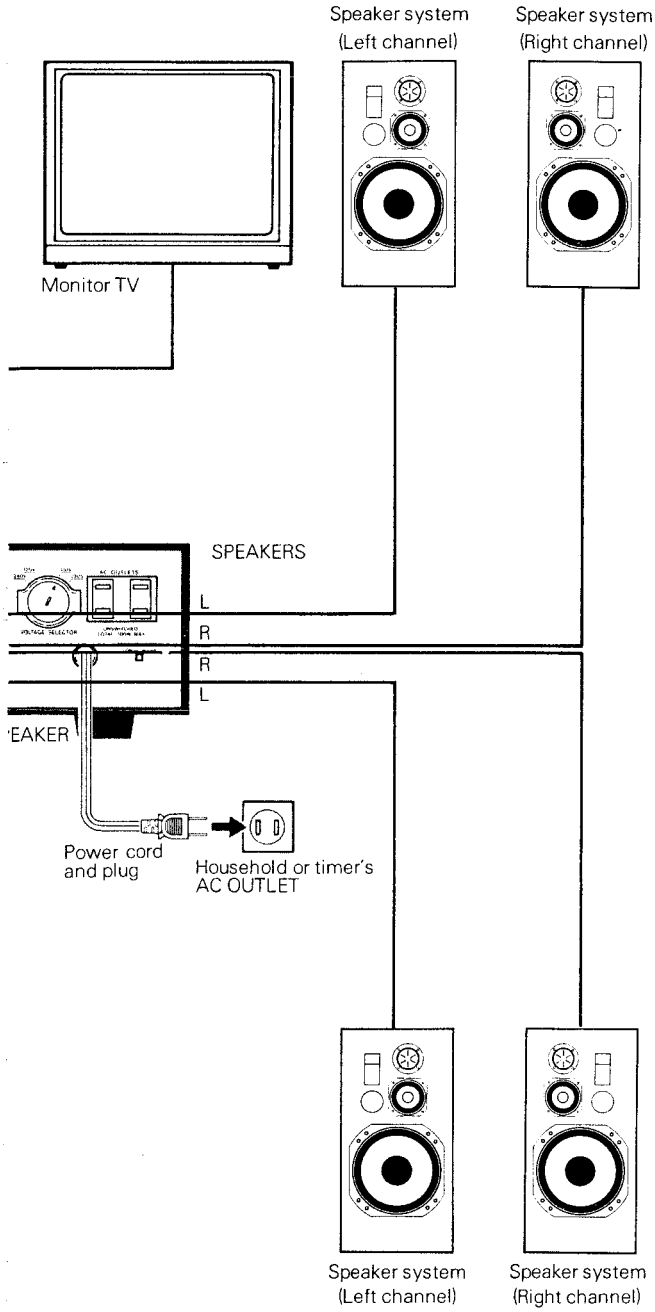
UNSWITCHED:

The power to this AC outlet is maintained even when the Akai audio video receiver is turned off. Make sure that the power consumption of the component connected to **this outlet does not exceed 300 watts**.

Note

Do not use these outlets for connection of a video cassette recorder or a timer. There is a timer, TV signal booster and a dew condensation prevention circuit inside of your VCR.

* The **UNSWITCHED** can be turned on and off with an optional Akai Audio Timer.



SPEAKER Terminals

Be sure to connect:
+ wires to + terminals;
− wires to − terminals;
Left speaker to the Left (L) terminals; and Right speaker to the Right (R) terminals.
Strip off 1 cm of vinyl covering from the ends of the speaker wires, then connect as follows:

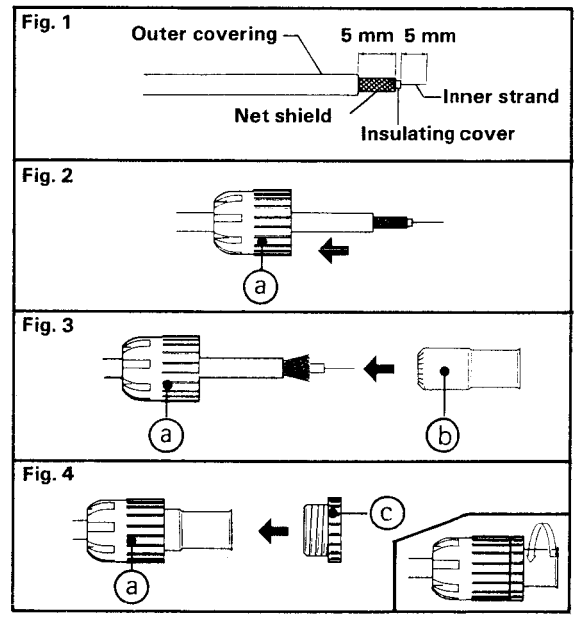
A Terminals
With the speaker tab open (up), insert the speaker wire fully into the terminal. Push the speaker tab down so that the grip on the wire is firm. Pull the speaker wire gently to make sure that it is secure.

B Terminals
With the speaker tab open (down), insert the speaker wire fully into the terminal. Push the speaker tab back up so that the grip on the wire is firm. Pull the speaker wire gently to make sure that it is secure.

Multi-element FM outdoor antenna How to Connect

Connect the antenna to the FM (75Ω) jack using the standard accessory FM antenna plug.

1 Rotate the plug and take it apart.
2 Prepare a 75 ohm coaxial cable (3C-2V or 5C-2V) and pass it through section (a). Fold back the net shield and cut the insulating cover leaving about 5mm.; Fig. 1.
3 Place part (b) so that the bottom of part (b) is surrounded by the folded back net shield and the center strand passes through the center hole. (If there is a multiple core center strand, first twist it together to form a single strand.) Fig. 2, 3.
4 Fit parts (a) and (c) together in the order shown in Fig. 4 and screw together.



On the RESET (PUSH) button

When the audio video receiver does not function properly due to interference from static electricity, etc. **press the rear panel RESET (PUSH) button with a pointed object.**
Afterwards, the Akai audio video receiver will be set to the following initial modes:

- VOLUME ..... −40dB
- Balance control ..... Center
- Band and frequency ..... FM 87.5MHz
- Mode ..... FM AUTO
- Source ..... TUNER
- Preset stations ..... All cancelled
- Surround mode ..... Off
- Mute ..... Off

* After the RESET (PUSH) button has been pressed, it will be necessary to memorize all broadcast stations once again.

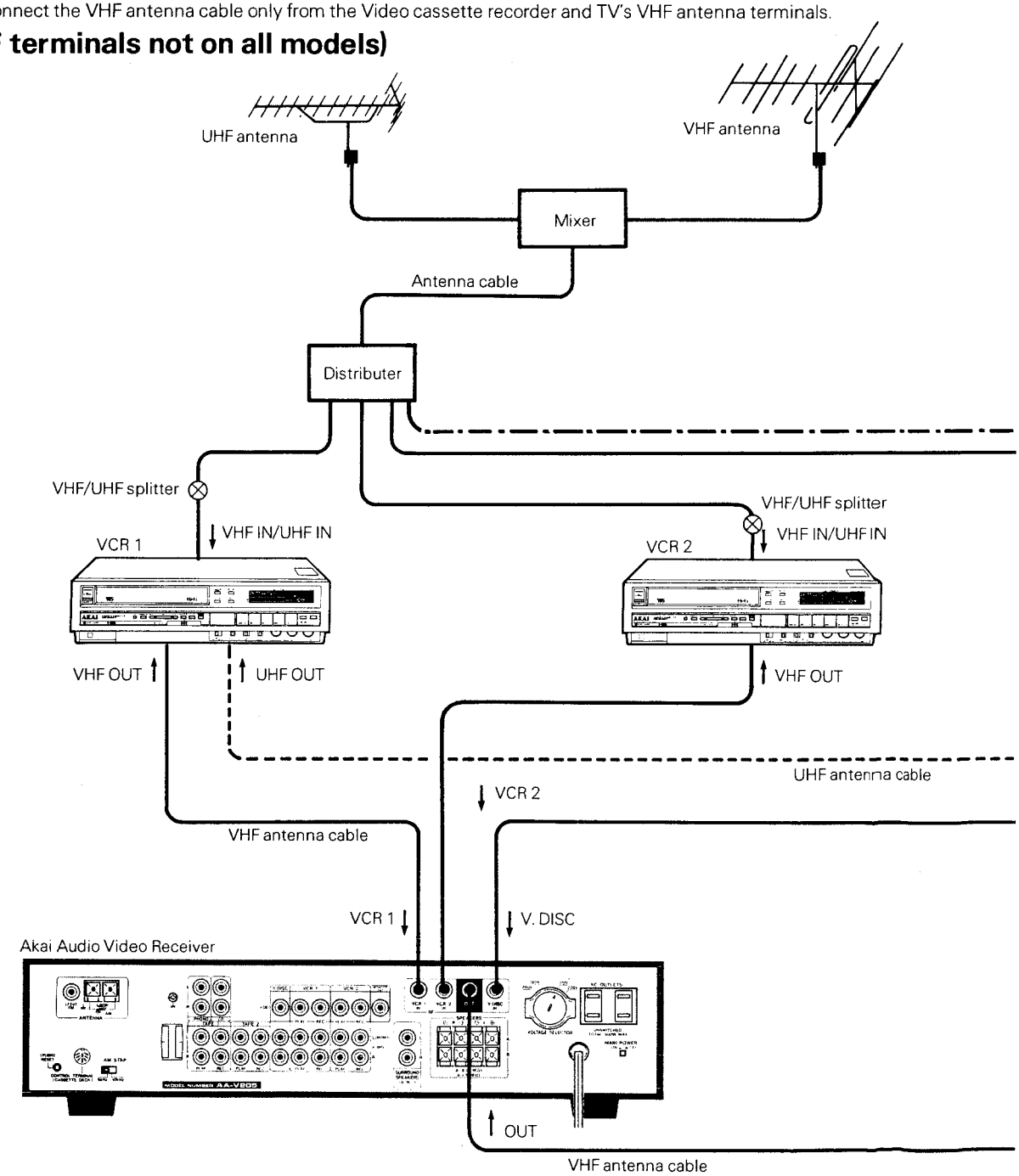
7 Connecting a TV or VCR to your audio video receiver

If your TV set has only VHF and/or UHF antenna terminals the following connection diagrams should be used for monitoring audio and video playback with your audio video receiver and a monitor TV.

Before connection

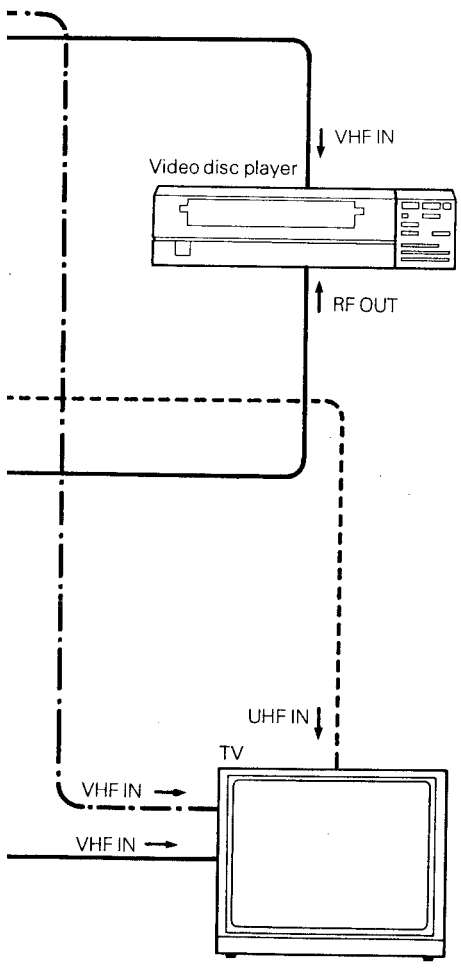
Disconnect the VHF antenna cable only from the Video cassette recorder and TV's VHF antenna terminals.

(RF terminals not on all models)



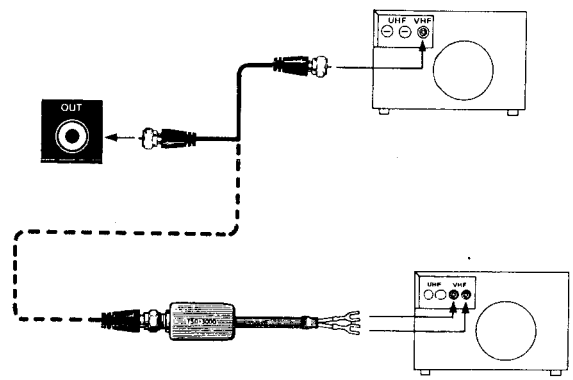
The RF Terminals

The RF terminals are used to set video cassette recorder's and video disc player's video channel frequencies.
This connection diagram is for monitoring connected video cassette recorder's and video disc player's pictures. If the video cassette recorder is turned off, your connected TV cannot receive a TV program.
If you want to watch a TV program, connect the antenna wire as indicated by the dotted line in the illustration.



On the transformer and connector.

This audio video receiver has F type VHF antenna terminals, if you connect a transformer cable to these terminals, use an F-type connector. If the VHF antenna cable you use are 300ohms flat cable, you must use a 300-75ohms transformer type plug.
F-type connectors, splitters and transformers are available at any audio and video supply outlet.

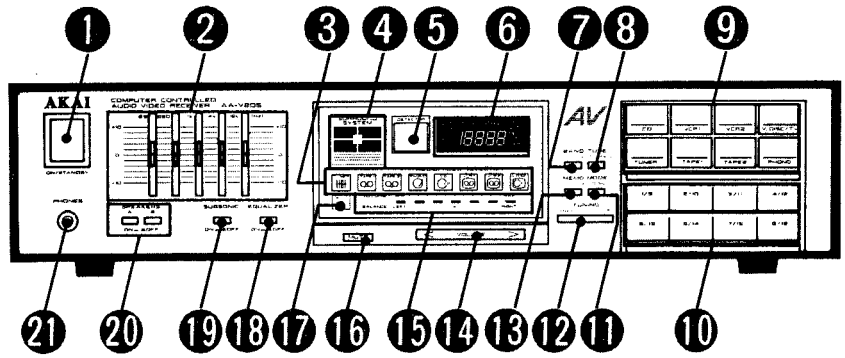


For users in European countries

If you want to use a conventional TV for monitoring:
1 Connect the TV to the VCR.
2 Set the TV channel selector to your VCR's video channel.
3 Set the VCR's input selector to EXT (external).

When playing back the source, use the volume control of the Akai audio video receiver and turn down the volume of the connected monitor TV.

Controls



1 POWER ON/STANDBY switch
To turn ON and OFF the Akai audio video receiver.

2 5 band Graphic Equalizer
To finely adjust each frequency level.

3 AUDIO/VIDEO SELECTOR displays
Shows which source is selected for playback or recording.

4 Surround ON display
Lights when the SURROUND button is depressed.

5 DETECTOR window
Detects beams from remote control unit.

6 LC (liquid crystal) Tuner Display
Shows Band, Frequency, AUTO, MONO, and MEMO.

7 BAND selector
To select band.

8 TUNE (AUTO/MANU) selector
To select tuning mode automatically or manually during radio reception.

9 AV Source Selectors (CD, VCR1, VCR2, V.DISC/TV, TUNER, TAPE1, TAPE2, PHONO)
Use these selectors to choose an audio or video source.

10 Preset Station (1-8/9-16) Buttons
Use these buttons to memorize and recall preset stations.

11 MODE AUTO/MONO switch
Use this switch to choose Stereo or Monaural reception of FM broadcasts.

12 TUNING UP(>)/DOWN (<) Control
To tune in radio frequencies.

13 MEMO button
Use it when memorizing radio stations with the preset station buttons.

14 VOLUME Control
To adjust the volume level.

15 VOLUME/BALANCE display

16 MUTE switch
To instantly reduce the volume.

17 STANDBY indicator
Lights when this unit is connected to an AC power supply and set the MAIN POWER switch to ON (▂).

18 EQUALIZER ON/OFF switch
To turn ON and OFF the graphic equalizer.

19 SUBSONIC filter
Eliminates ultra low frequency disturbances during record playback.

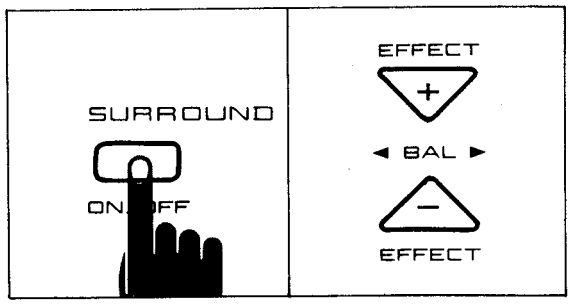
20 SPEAKERS ON(▂)/OFF (■) switches
To turn A and B speaker systems ON and OFF.

21 PHONES jack
For connection of headphones.

The mute protection circuit system

The Akai audio video receiver has an audio mute system to prevent unwanted noise from damaging the equipment when the power is initially turned on. For the first few seconds, no sound is heard while the mute system is engaged. While the mute system is engaged, the VOLUME display will flash.

11 The Surround Sound Effect



The Akai audio video receiver features the Matrix Surround System. To utilize, press the SURROUND ON/OFF button of the remote control unit to ON, and press the EFFECT +/− button to adjust the surround effect.
If used in combination with the Akai AE-S90 three dimensional surround speakers, the full capability of the surround system can be realized.

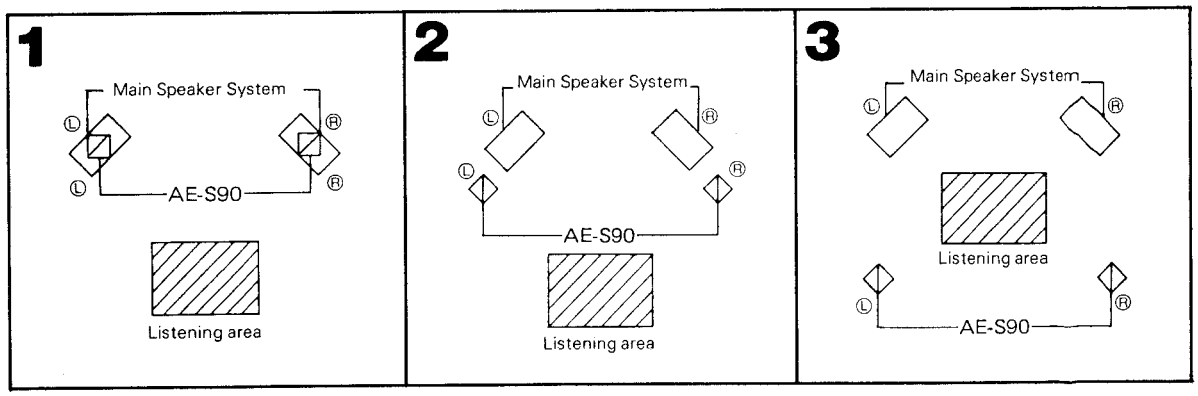
What is the Surround Effect?

The sound we normally hear is a mixture of direct and indirect elements, emitted from the sound source and reflected off the walls and ceiling, respectively. Sound sources can be positioned to the front and the rear of the listener, which means that he is surrounded in sound.

The Matrix Surround System

The Matrix Surround System, unlike the Dolby Surround Decoder, is not limited to the playback of materials which have been encoded with Dolby NR. It can be used for ordinary video discs, tapes, etc., as well.
A phase shifting circuit in the output stage is used to create a phase difference between the front and rear signals, according to the frequency. For the rear sound, a L=R monaural signal is used. This audio video receiver also incorporates a simulated stereo system, in which L and R signals are phase-shifted to achieve a stereo-like sound effect.

Example Surround Sound System Configurations



Place the surround speakers on top of the main speakers

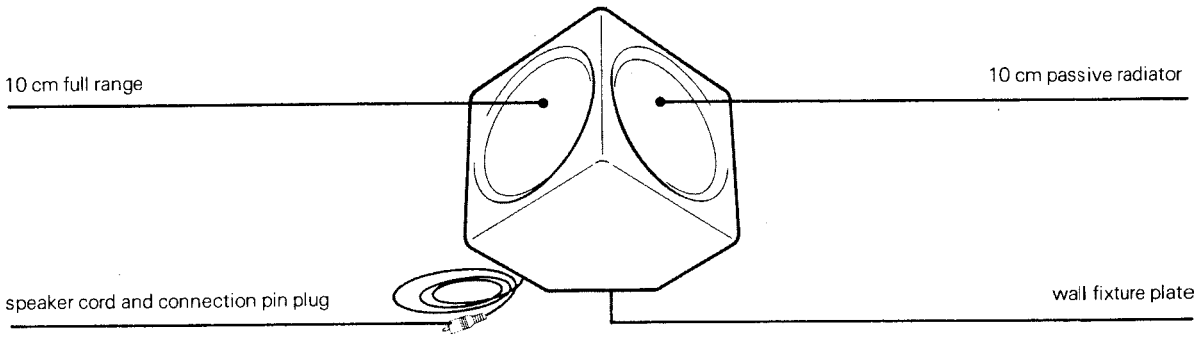
Place the surround speakers within a short distance of the main speakers.

Place the main speakers in the front corners of the room and the surround speakers in the rear corners.

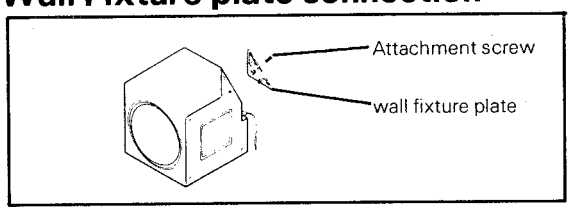
Note

- Adjust the SURROUND SPEAKER system position and the EFFECT (+/−) control level according to the playback source and the listening room accoustics.
- Refer to the "Speaker System" information on page 18, for further details.

AE-S90 Surround Speakers (Optional)

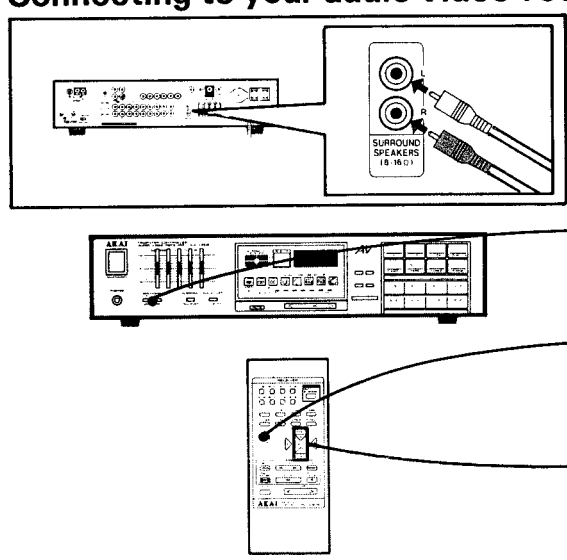


Wall Fixture plate connection



Attach the wall fixture plate to the corner of the AE-S90 speaker with the enclosed attachment screw, as illustrated.

Connecting to your audio video receiver



Connect the AE-S90 speaker pin plugs to the SURROUND SPEAKERS (8-16 Ω) terminals, left and right.

Surround Speaker System Operation

1. Set the SPEAKERS Ⓐ ON(▁)/OFF(▔)switches to ON.
2. Set the remote control unit's SURROUND ON/OFF switch to ON.
3. Adjust the level of surround sound with the EFFECT (+/−) controls on your remote control unit.

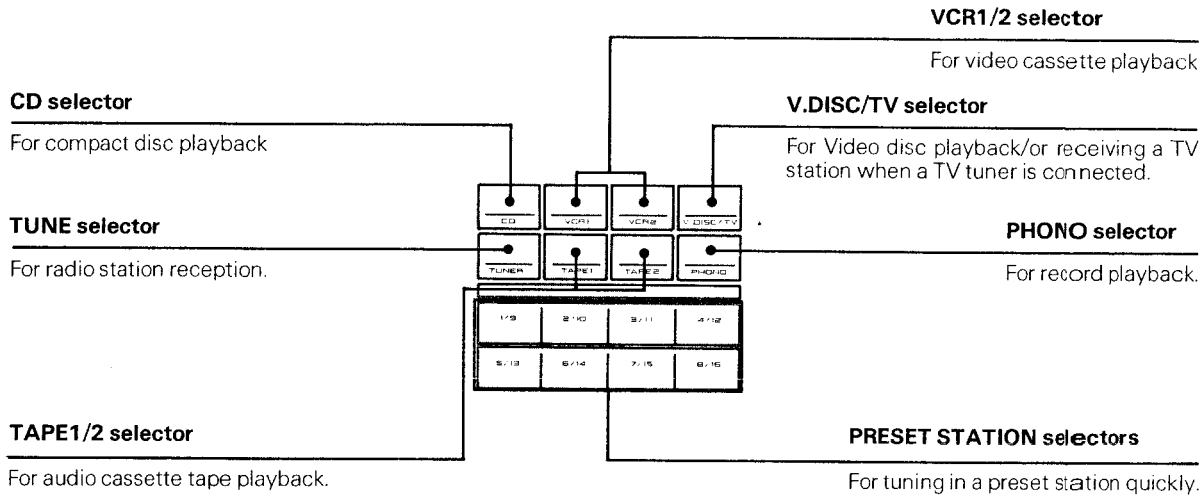
Note

- The surround speaker system volume and the main speaker volume are regulated by the main volume control.
- Remember to turn the A SPEAKERS switche ON before attempting to use the speaker systems.

13 Using the AV Source Selectors

Before beginning

- Make certain the POWER switch is ON.
- Make certain the SPEAKERS switches are OFF.


VCR1/2 selector
For video cassette playback
CD selector
For compact disc playback
V.DISC/TV selector
For Video disc playback/or receiving a TV station when a TV tuner is connected.
TUNE selector
For radio station reception.
PHONO selector
For record playback.
TAPE1/2 selector
For audio cassette tape playback.
PRESET STATION selectors
For tuning in a preset station quickly.

Each of the AV Source Selectors corresponds to the connected component and must be depressed so that reproduction is audible. The PRESET STATION selectors are for station call as well as for preset station memorization.

MUTE button To instantly cut the volume

You can cut the playback volume of the amplifier instantly without using the VOLUME control.

To cut the volume level
Press the MUTE button once.
The sound will cut and the VOLUME display will flash when the MUTE system is engaged.

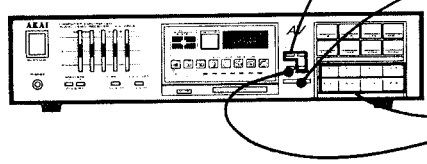
To resume normal listening level (Fade-in)
Press the MUTE button again.
The VOLUME display will light and the volume will be set at the previous level.

Note
If the power of your audio video receiver is turned off, or if VOLUME, BALANCE or EFFECT +/– buttons are adjusted while the mute system is engaged, it will cease to operate and the volume will return to the previous level.

Preset Station Setting and Recall

Before beginning

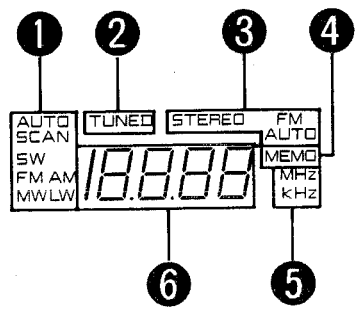
Make certain that your Akai audio video receiver is properly connected and the POWER is ON.



1. Choose the band you want to tune in with the **BAND** selector.
   Select the **TUNE** AUTO or MANUAL mode for automatic or manual tuning. If listening to FM, set the MODE selector for AUTO or MONO.
2. Press the UP(>) or DOWN(<) side of the TUNING button until you have tuned in the desired station, the TUNED indicator should light.
3. To memorize that station with one of the channel selectors:
   1 Press the MEMO button once for stations 1-8
   Press the MEMO button twice for stations 9-16
   2 Press the PRESET STATION selector button which you want to memorize with that station within approximately 4 seconds. Now the station is memorized with the PRESET STATION selector button.
   • To cancel the memory operation press 3 times.

To tune in a Preset station, press the PRESET STATION button which has been memorized with the station you want to listen to.
Press the PRESET STATION button **once** for preset station 1-8 recall or **twice** for 9-16 recall.

* This audio video receiver can memorize the band, frequency and FM mode.

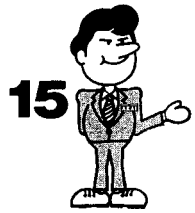


Tuner Display

1. Tuning mode display: AUTOSCAN lights when tuning mode is set to AUTO
2. TUNED display: lights when a station is properly tuned in
3. AUTO display: lights when an FM Stereo station is tuned
4. MEMO display: lights when the MEMO button is pressed
5. Band frequency display: in AM kilohertz (kHz) or FM megahertz (MHz)
6. Digital display Shows preset station number and frequency

For Monaural reception of FM Stereo stations

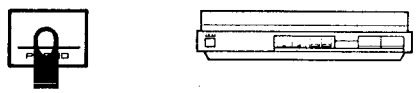
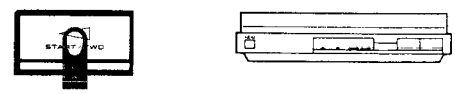
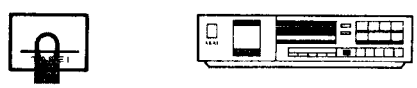
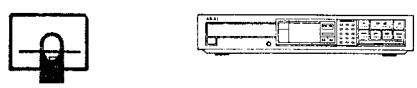
If there is some difficulty in FM Stereo reception, set the FM MODE AUTO/MONO selector for MONO (the AUTO will disappear), monaural reception. In the MONO mode, a controlled mixture of left and right channels is emitted from both speakers.



15 Let's Enjoy Music

Before beginning:

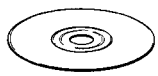
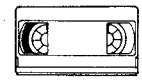
- Are all of the components turned ON?
- Is the VOLUME control set to a reasonable level?
- Turn ON the SPEAKERS switches.
  When listening through headphones, turn OFF the SPEAKERS switches.

Step 1	Step 2
Press an AV Source Selector Prepare for playback	Play back the component
 Depress the PHONO button of your Akai audio video receiver.	 Place the record you want to play back on the turntable. Press the START button and playback will begin.
 Depress a PRESET STATION selector on your audio video receiver.	 The station will automatically tune in.
 Depress the TAPE button of your Akai audio video receiver.	 Load the Akai Stereo Cassette Deck with a prerecorded cassette tape. Depress the Play (►) button to begin cassette playback.
 Depress the CD button of your Akai audio video receiver.	 Load the Akai CD Player with a compact disc. Press the Play button of the Akai CD Player to play back a compact disc.

- Adjust the VOLUME, BALANCE and EFFECT controls to suit your taste.
- If you want to use the graphic equalizer turn the EQUALIZER ON/OFF switch to ON and adjust the controls.

Recording with Your Akai Audio Video Receiver

Video Disc Player | Audio video receiver | VCR

Video Disc	Audio video receiver	Video Deck
		
Load the original Video Disc and prepare for playback.	Depress the V.DISC AV Source Selector.	Load a cassette and prepare for recording.
Play back the Video Disc.		Start recording.

For dubbing a new sound track from one VCR to another.

- Connect the source playback VCR to the audio video receiver's one of the VIDEO PLAY jacks, and the recording VCR to the audio video receiver's VCR REC jacks.

1 Select the sound source with the CD, TUNER, TAPE1/2, or PHONO button of the AV source selector you want to record.
2 When both VCRs are in operation, turn ON the new sound source component in order to record the audio track onto the VCR.

ATTENTION, During dubbing operation:

- Do not press another AV Source Selector during this operation.
- Do not change the EQUALIZER ON/OFF switch position and do not move the GRAPHIC EQUALIZER controls.

To record from a video disc player or a third video deck:

When two video decks are connected, you can make two copies of the tape at once.
Set VCR1 and VCR2 decks for recording and set a video disc player or a third VCR for playback. Set the input selector for V.DISC.

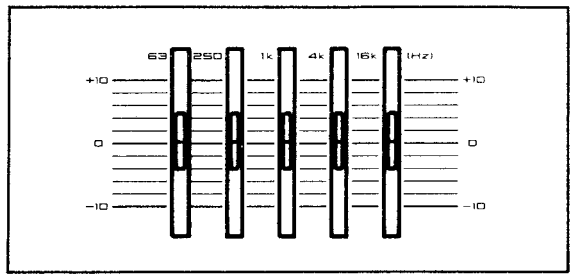
To copy a video cassette, set the Audio Video Receiver's input selector as follows:

- **To use VTR1 video deck for playback and VTR2 video deck for recording:**
  Depress the VTR1 input selector.
- **To record from VTR2 to VTR1 deck:**
  Depress the VTR2 input selector.
- **To record a new audio source onto a video deck**
  Depress the CD, TUNER, TAPE1/2, or PHONO **recording** source selector, accordingly.
- **When recording a sound track onto a video source**
  Make sure to press the correct audio input source selector accordingly.
- When tape dubbing, be certain to set the input source selector correctly.

17 On Each Part of the Akai Audio Video Receiver

The Graphic Equalizer and Balance controls

This audio video receiver is equipped with a 5 band graphic equalizer so that you can more finely adjust the listening tones to suit your taste. The graphic equalizer can function during playback and recording operations.



The band adjustment range is from 63Hz to 16kHz. To achieve a flat response, or no compensation, leave all of the equalizer band controls at 0.

What is Compensation?

Unlike the standard tone control of an amplifier or receiver, a Graphic Equalizer precisely controls specific frequency band levels. During playback and recording, any of the specific frequencies can be reduced or increased in terms of volume (dB) etc., so as to emphasize the frequencies embodied in some instruments, and to de-emphasize those of others.

A "flat response", or unmodified music signal can be achieved by leaving all controls at the 0 position. Modifying the 0 response by boosting or cutting the volume is known as compensation.

When to Compensate

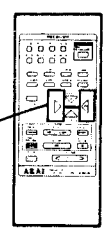
Proper use of the Graphic Equalizer takes some experience. However, it can be a valuable tool for compensating errors in the frequency response of the other components of the system. It can deal with specific sound reproduction problems from the speakers, such as too much or not enough bass. It can also help to reduce ultra low frequency noise, such as subsonic noise detected during record playback, or scraping noise from phono cartridges. It can be used to "customize" the music to your listening room accoustics.

The Audio Video Receiver's 5 bands represent the following:

63 Hz:	Enhances bass notes, such as in organ music, and reduces unwanted ultra low noise.
250 Hz:	Allows you to vary the upper bass frequencies.
1 kHz:	Use it to emphasize or de-emphasize vocals.
4 kHz:	Adds brilliance and clarity to brass instruments and violins.
16 kHz:	Used to make up for missing high frequencies absorbed by the environment, and to add a natural crispness to the music.

Note

- The graphic equalizer controls function during playback and recording operations when the EQUALIZER switch is ON (▁).
- For no graphic equalizer compensation, leave all controls at 0, or set the EQUALIZER switch OFF (▔).



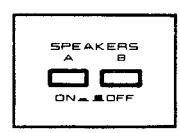
The BALANCE Control

(On the remote control unit only)

Use the BALANCE control when you feel that there is a deficiency in the left and right speaker balance, due to speaker placement. Move the control up to increase the Left speaker sound, or down to increase the Right speaker sound.

The SUBSONIC filter

Use the subsonic filter to eliminate ultra low frequency disturbances such as turntable rumble.



SPEAKERS switches and Headphone use

The A and B SPEAKERS switches allow you to switch between use of speakers connected to the A SPEAKERS terminals or B SPEAKERS terminals on the rear panel of the Akai audio video receiver, or both.

If only one set of speakers is connected to the rear SPEAKERS terminals, simply set the other button to OFF (▔). **When listening through headphones, set both SPEAKERS switches OFF(▔).**

* Do not listen through headphones at high volume levels. It may damage your hearing.

Problem? Let's Check

No Sound

- Make certain the POWER switches are ON; both POWER STANDBY (front) and MAIN POWER (rear).
- Make certain the A and or B SPEAKERS switches are ON.
- The VOLUME control is too low, adjust it.
- Is the AV Source Selector correctly set?
- The audio mute protection circuit is engaged.
- Are preset stations memorized?
- FM and/or AM antenna are not connected, connect them.
- The speaker protection circuit is engaged.

Distorted Sound

- Make certain all connections are correct.
- The graphic equalizer controls are not properly set.
- The AM loop and FM antennas are not set properly.

The Surround System will not function.

- The Surround Speakers have not been properly connected.
- The SURROUND ON/OFF switch is not turned ON.
- The EFFECT control is too low, adjust it.
- The main VOLUME control is too low, turn it up.
- The A or B speaker switches are ON.

No Stereo Sound

- Check the main and surround speaker connections.
- Adjust the VOLUME and BALANCE controls as needed.

The remote control unit will not function

- The batteries need to be replaced.
- Place the unit away from the strong light (fluorescent light, direct sunlight, etc.)

Sound is funny

- Check the speaker connections.
- Check the GRAPHIC EQUALIZER controls and EQUALIZER ON/OFF switch position.

The audio video receiver does not function properly

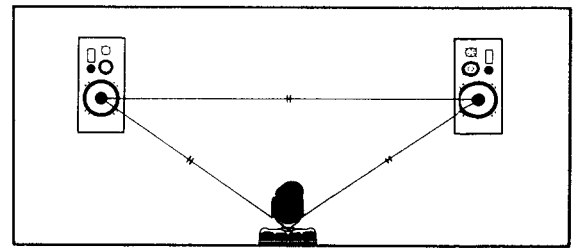
- Is the RESET(PUSH) button pressed?

The Speaker System

The playback characteristics of the speaker system are greatly influenced by the placement and the room in which the speakers are used. For example, if the speaker system is placed near a bare wall, the bass will sound better, but the treble may seem too strong. Play back some music without using the tone and graphic equalizer controls, and move the speaker system around to find the best location. However, please keep the following in mind.

Place the speaker system:

- On a flat and solid surface which does not transmit too many vibrations.
- In a well ventilated, not very humid place.
- Away from direct sunlight and heat sources (stoves, etc.).
- Away from your turntable and TV set.



Attention
To prevent damage to the speaker system:

- Do not raise the volume too high.
- Turn off the Akai audio video receiver when changing or connecting the turntable's cartridge.
- Lower the volume when changing radio stations, and when cueing or reviewing tapes.
- Do not touch the speaker's diaphragms.

How to clean the speaker system

- Clean the speaker system with a soft, dry cloth.
- If very dirty, use a mild detergent.
- To protect the diaphragms (the vibrating parts), do not spray liquid cleaner directly on the speaker system. Always spray it on a cloth first.
- Never use paint thinner, chemically treated cloth or a spray-type insecticide near the speaker system, as this will damage the finish.

When the protection circuit is engaged

The protection circuit will function during playback to protect the speakers from overloading, and to protect the circuit from damages. When speakers with less than the rated impedance are used, the protection circuit will short-circuit the + and −, speaker cords. In this case, it is necessary to reset the protection circuit.

How to reset the protection circuit

1 Press the POWER switch to turn off the Akai audio video receiver.
2 Check the connections and speaker's impedance.
3 Turn on the Akai audio video receiver again.

Memory back-up system

There is a lithium-type memory back-up system inside of your audio video receiver. The memory back-up system protects the information stored in the memory from being erased when the power is turned off.

Should a problem persist, write down the model and serial numbers and all pertinent data regarding warranty coverage as well as a clear description of the existing trouble. Then, contact your nearest authorized Akai Service station, or the Service Department of Akai Electric Company, Tokyo, Japan.

Specifications

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Amplifier section

Power output	
Rated power output	
20Hz to 20kHz	60W/0.05% at 8ohms
Output power by FTC	
20Hz to 20kHz	60W/0.05% at 8ohms
Output power by F. Norm	
63Hz to 12.5kHz	65W
Output power by DIN	
1kHz	65W
Music power (Both channels)	280W
Power bandwidth	
(IHF −3dB, 8ohms)	5Hz to 70kHz/0.5%
S/N (IHF-A)	
PHONO	75dB
CD, TAPE	98dB
Residual noise (8ohms)	0.5mV
Channel separation	
(IHF, 1kHz)	65dB
Damping factor	
(1kHz, 8ohms)	50
Speaker impedance	
A or B	8 to 16ohms
A + B	16ohms
SURROUND	8ohms
Input sensitivity/Impedance	
PHONO	2.0mV/47kohms
CD, TAPE	150mV/47kohms
V. DISC/VCR (Audio)	150mV/47kohms
V. DISC/VCR (Video)	1Vp-p/75ohms
Output level/Impedance	
TAPE REC	150mV/1kohms
VCR (Audio)	150mV/1kohms
MONITOR/VCR (Video)	1Vp-p/1kohms
Frequency response	
PHONO(RIAA)	±0.5dB
AUX/TAPE	5Hz to 100kHz −3dB
Graphic equalizer	
Control range	±10dB
Center frequency	63Hz/250Hz/1kHz/4kHz/16kHz
Phono max. input level	
(1kHz)	120mV

Tuner section

FM Tuner	
Tuning frequency range	87.5MHz to 108.0MHz
Usable sensitivity	11.2dBf
Quieting sensitivity (IHF)	16.2dBf (Mono)/37.2dBf (Stereo) (S/N=50dB)
Capture ratio	1.5
Selectivity (400kHz)	60dB
Image rejection	85dB
IF rejection	90dB
Spurious rejection	80dB
AM suppression	60dB
Sub carrier suppression	60dB
S/N (IHF)	75dB (Mono)/65dB (Stereo)
Harmonic distortion	0.1% (Mono)/0.3% (Stereo)
Stereo separation (1kHz)	45dB
Frequency response	30Hz to 15kHz ±0.5dB

AM Tuner

	AM tuner section (MW for AA-V205L)	LW tuner section (for AA-V205L)
Tuning frequency range		
USA & Canada	530kHz to 1,610kHz	—
Other countries	531kHz to 1,602kHz	146kHz to 353kHz
Usable sensitivity		
(Loop antenna)	300μV/m	800μV/m
Selectivity	22dB	40dB
Image rejection	45dB	45dB
IF rejection	35dB	35dB
S/N	40dB	35dB
T.H.D.	1.0%	2.0%
Power requirements	120V, 60Hz for USA & Canada 220V, 50Hz for Europe except UK 240V, 50Hz for UK & Australia 110V/120V/220V/240V, 50Hz/60Hz convertible for other countries	
Dimensions	440(W)x100(H)x343(D)mm (17.3x3.9x13.5 inches)	
Weight	7.4kg (16.3 lbs)	

Standard accessories

AM Loop Antenna	1
FM Dipole Antenna	1
FM antenna plug	1
Wireless remote control unit	1
Batteries for wireless remote control unit	2

Optional accessory

Remote control cable for Akai cassette deck

* For improvement purposes, specifications and design are subject to change without notice.